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# Science and Industry

shrutes and trees are used by the natives of Santo Domingo in the nature of a toothbrush, or as what the natives call a "chew stick." Among ethers the stems of the orange, the lemon, and the membrillo or quince tree are used on account of the agreeable flavor of these woods. But the most commonly used is a plant ordinarily called "guano" which is probably the same as the one called in Spanish "palma de guane" with the scientific name Trynax argentes, "Gmano" grows in large quantities in the vicinity of Bani and San Chistobal. The natives one the green stom. the end of which they chew up and use in the nature of a toothbrush. It is said that the natives of Porto Rico, Jamaica, and other West Indian countries allow the chew sticks to become cry before using them.

Sunlight is so important to life that it is little worder that sun worsnipers prevalled in primitive days, Plant a potato in your cellar, and if there is a little light the potato will sprout and try to grow. Surround it with the best fertilizer, water it, and do the best you can for it except that you keep it in the dark, and it cannot digest and grow. See how slender and puls it is! The process of digestion, the great function of assimnation, cannot go on without sunmine. Nature's laws are the same in the animal world. It is just as true that the only girls with red cheeks and sweet breaths, the only girls who become fully ripe and sweet, are those who baptize themselves fully in glorious sunshine. The many pole garls who are to be seen with a bloodless, hulf baked sort of face, whose walk, whose voice, and whose whole expression is devoid of spirit, are not

The suggestion that there are airounkes, due to explosions of meteornes, and quite independent of earthquakes and volcanoes, comes from no less an authority than W. P. Denning, the astronomer. That such ex-plosions are sometimes audible is well known, Prof. W. M. Foote has just recorded that a large meteorite falling near Holbrook, Ariz, at 6:30 p. m. on July 12, 1912, broke up with a loud noise that hested built a minute or more, and scattered over a stretch of three miles of sandy desert, more than 14,000 of the fragments-of a total weight of nearly 500 pounds-having Leen picked up and preserved. The exploding bodies, of course, are not niways seen. Other similar instances have been recorded, and two meleurite explosions noted in 1877-on Nev. 58 and 23 were estimated to have created air disturbances more than a hundred times as violed) as a loud peal of thunder.

The peculiar agricultural limitaa recent paper by Miss E. C. Semple to the Royal Geographical society of England. With an equable bload

climate and food from both hard and sea, the conditions favored the development of early civilisation, but the tack of new area to cultivate for the growing population soon brought the stage of intensive agriculture. Production within the Island area has been handicapped. Forests and barren land make cultivation rare above 1,800 feet, and the arable land of Japan is only 14,37 per cent of the total area, which is a lower percentage than is known elsewhere except in Finland, Sweden, and Norway sparsely populated countries. The stuple crop, rice, is confined to the vicinity of rivers and streams. The available soil is not of fertile kind, and low efficiency is premoted by the practical absence of stock raising. Yew attempts to reclaim harren and ill watered wastes are being made by wealthier farmers or companies.

Dr. Leo Frobenius, chief of the German Control African exploration expedition, who asserts that he has located the exact site of the lost Atlantis, has just expounded his views and the results of his travels before the kalser. The kalser is much interested in the trophies that Frobenius obtained to support of his Atlantis views, particularly the collection of terra cottas. "One sees that these never were made by negroes." was his majesty's terse comment, The enperor also thought the terra entias were portraits, as every head is different. Dr. Frobenius exhibited the

processants of a Byzantine imperial eastle which he had discovered in the heart of Arriest He explained that most of his exploration had taken place on Drillen sell, but he had but across the rains of a Person city on German territory. This statement cycked a spontaneous outdoors from the laiser, in the effect that every thing must be do no to coable a thorough excavation of the ruins. Dr. Forbenius, therefore, will probably some return to Africa with imperial breiting.

Dr. Cantex rend a paper recently on the relation between the acoustic (sound) properties of public halfs and hearing and phonation, that is, volce production. He said that the acoustics of many balls were excellent, but in other cases they were bad. There were yet others in which the accordic properties were satisfactory for the audience, but deplorable for the speaker, on account of the strain buposed on him. The reason of these differences he could not explain: Halls might be bad by reason of deadness, of overresonance, or on account of echo. The materials of construction andoubtedly exercised an influence. Wood, glasswork, and marble afforded good resonance, draperies had, Stones and plaster were regarded as neutral. In course of time the drying ed the material improved its sonorous-Cupolas created .unfavorable conditions, which exaggerated resonance. Speaking generally, good holls were those he which one of the dimenrions exceeded the other. Round and square both were four authorizetory.





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